

Conversion Factors for Metric and U.S. Units

To convert column 1 into column 2, multiply by:

Column 1

Column 2

To convert column 2 into column 1, multiply by:

LENGTH

0.621	kilometer, km	mile, mi	1.609
1.094	meter, m	yard, yd	0.914
0.394	centimeter, cm	inch, in	2.54

AREA

0.386	kilometer ² , km ²	mile ² , mi ²	2.590
247.1	kilometer ² , km ²	acre, acre	0.00405
2.471	hectare, ha	acre, acre	0.405

VOLUME

0.00973	cubic meter, m ³	acre-inch	102.8
3.532	hectoliter, hl	cubic foot, ft ³	0.2832
2.838	hectoliter, hl	bushel, bu	0.352
0.0284	liter, l	bushel, bu	35.24
1.057	liter, l	quart (liquid), qt.	0.946

MASS

1.102	tonne (metric)	ton (short)	0.9072
2.205	quintal, q	hundredweight, cwt (short)	0.454
2.205	kilogram, kg	pound, lb	0.454
0.035	gram, g	ounce (avdp), oz	28.35

YIELD OR RATE

0.446	tonne(metric)/hectare	ton (short)/acre	2.240
0.891	kg/ha	lb/acre	1.12
0.891	quintal/hectare	hundredweight/acre	1.12
1.15	hectoliter/hectare, hl/ha	bu/acre	0.87

TEMPERATURE

$(1.8 \times C) + 32$	Celcius, C	Fahrenheit, F	$0.56 \times (F-32)$
-17.8°		0°F	
0°C		32°F	
20°C		68°F	
100°C		212°F	

METRIC PREFIX DEFINITIONS

mega	1,000,000	deca	10	centi	0.01
kilo	1,000	basic metric unit	1	milli	0.001
hecto	100	deci	0.1	micro	0.000001

TO CONVERT U.S. CROP YIELDS FROM BUSHELS PER ACRE (bu/A) TO METRICS

Corn—bu/A x 0.063 = tonnes/ha
Soybeans—bu/A x 0.067 = tonnes/ha

Wheat—bu/A x 0.067 = tonnes/ha
Grain Sorghum—bu/A x 0.056 = tonnes/ha